SEQUENCE LISTING

<110> Bing-Ren HUANG et al.

<120> REGULATOR OF APOPTOSIS AND CELL PROLIFERATION

<130> 0641-0260P

<140> US 10/791,860
<141> 2004-03-04

<160> 20

<170> PatentIn version 3.2

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<212> DNA
<213> Rattus norvegicus

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gactatagta taaccctcag ttggtcacat gtctacacat tatttccagt tgataacaag 120

tagcggtgtt ttccatatgt aattcagatc tgaacttaat ggcaataaat ggtttaaata 180

tttgcgaaaa aaaaaaa 197

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ttcctccctg ctgtttggag gcagcatctc ctctttttat ggagggcccg tccttttttc 120

ttacaaattc ttcaataaag acacattctt gaggcgaaaa aaaaaaa 167

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<212> DNA
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acagtgctcc agccactgtt gcggccacag atcacgtcag catgaatagt cgtgctgagg 480

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ccaaaccaac tctcggctgc cttatcaatg ctaaacttta tttgtcttca tcaggagtag 600

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<213> Rattus norvegicus

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Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
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Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
35 40 45

Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
50 55 60

Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
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Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala
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<210> 5
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<212> PRT
<213> Mus musculus

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Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
1 5 10 15

Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
20 25 30

Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
35 40 45

Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Gln
50 55 60

Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
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Phe Ala Cys His Val Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
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Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala
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<213> Homo sapiens

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Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
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Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
20 25 30

Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
35 40 45

Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
50 55 60

Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
65 70 75 80

Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
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Arg Leu Ile Lys His Glu
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<212> DNA
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ccatcaatga tatgaaaaag tctccagaga ttatcagtgg gcggatgaca tttgccctct 300

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aacacgagat gactaaaacg gcatctgcat aacaatggga aaaggaagaa caaggtcttg 480

aagggacagc attgccagct gctgctgagt cacagatttc attataaata gcctccctaa 540

ggaaaataca ctgaatgcta tttttactaa ccattctatt tttatagaaa tagctgagag 600

tttctaaacc aactctctgc tgccttacaa gtattaaata ttttacttct ttccataaag 660

agtagctcaa aatatgcaat taatttaata atttctgatg atgttttatc tgcagtaata 720

tgtatatcat ctattagaat ttacttaatg aaaaactgaa gagaacaaaa tttgtaacca 780

ctagcactta agtactcctg attcttaaca ttgtctttaa tgaccacaag acaaccaaca 840

gctggccacg tacttaaaat tttgtcccca ctgtttaaaa atgttacctg tgtatttcca 900

tgcagtgtat atattgagat gctgtaactt aatggcaata aatgatttaa atatttgtta 960

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cacttctggg gcccagttgc caactggggt ctccccattg ctgctatcaa tgacatgaag 180

aaatctccag agattatcag tgggcggatg actttcgccc tctgttgcta ttctctgaca 240

ttcatgagat ttgcctacaa ggtacaacct cgaaactggc ttttgtttgc atgccatgta 300

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cggccatctg catagcggta caaggaccag ctcttgaaag agacagtgct ccagccactg 420

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tcttaatgac catgccaaca ttattgaata gccgagagtc cctaaaccca ctctctgctg 540

ccttatcaat gctaaacctt atttgtcttc atcaagagta gttcaaaata tgcaactaat 600

ttaataattt tgaatgatgg ttttatctat agcaatctgt agtaatatgt atattatcta 660

ttgggatttg tgtaataaaa aatctaaggg aacaaaattt tataactaca agcacttaag 720

tactcaaaat tcttgacttt ttctttaatg acaatagtaa accctcagtt ggtcacatgt 780

ctacacataa tttccagtga taacaagtat cggtgttttc catatgtaac tcagatctgt 840

aacttaatgg caataaatgg tttaaatatt tgc 873

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<212> DNA
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cattgctgcc atcaatgata tgaaaaagtc tccagagatt atcagtgggc ggatgacatt 180

tgccctctgt tgctattctt tgacattcat gagatttgcc tacaaggtac agcctcggaa 240

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gcttatcaaa cacgagatga ctgtaactta atggcaataa atgatttaaa tatttgaaga 360

gtagctcaaa atatgcaatt aatttaataa tttatctgca gtaatatgta tatcatctat 420

tagaatttac ttaatgaaaa actgaagaga acaaaatttg taaccactag cacttaagta 480

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gctgcctta 549

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<212> DNA
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<220>
<223> 5' random arbitrary primer

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<210> 11
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<220>
<223> 5' random arbitrary primer

<400> 11
cagtgagctg 10

<210> 12
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<220>
<223> 5' random arbitrary primer

<400> 12
gtcacggaag 10

<210> 13
<211> 27
<212> DNA
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<220>
<223> PCR primer AP1

<400> 13
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<210> 14
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<212> DNA
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<220>
<223> PCR primer corresponding to SEQ ID NO: 1

<400> 14
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<210> 15
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<223> primer II (ARBP cDNA 3' primer)

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<213> Artificial Sequence

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<223> GAPDH sense primer

<400> 17
tgctggtgct gagtatgtcg 20

<210> 18
<211> 20
<212> DNA
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<223> GAPDH anti-sense primer

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<212> PRT
<213> Artificial Sequence

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Gly Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala
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<210> 20
<211> 550
<212> DNA
<213> Homo sapiens

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cattgctgct atcaatgaca tgaagaaatc tccagagatt atcagtgggc ggatgacttt 180

cgccctctgt tgctattctc tgacattcat gagatttgcc tacaaggtac aacctcgaaa 240

ctggcttttg tttgcatgcc atgtaacaaa cgaagtagct cagctcattc agggaggacg 300

acttatcaac tacgagatga ctgtaactta atggcaataa atggtttaaa tatttgaaga 360

gtagttcaaa atatgcaact aatttaataa tttatctgta gtaatatgta tattatctat 420

tgggatttgt gtaataaaaa atctaaggga acaaaatttt ataactacaa gcacttaagt 480

actcaaaatt cttgactttt tctttaatga caatagccga gagtccctaa acccactctc 540

tgctgcctta 550